

ORDINANCE NO. 90- 53

1 AN ORDINANCE OF THE BOARD OF COUNTY
2 COMMISSIONERS OF PALM BEACH COUNTY, FLORIDA,
3 REPEALING ORDINANCE 88-19, PALM BEACH COUNTY
4 AMENDMENTS TO THE NATIONAL ELECTRICAL CODE,
5 1987 EDITION; ADOPTING THE PALM BEACH COUNTY
6 AMENDMENTS TO THE NATIONAL ELECTRICAL CODE,
7 1990 EDITION; PROVIDING FOR APPLICABILITY;
8 PROVIDING FOR REPEAL OF LAWS IN CONFLICT;
9 PROVIDING FOR INCLUSION IN THE CODE;
10 PROVIDING FOR SEVERABILITY; AND PROVIDING
11 FOR AN EFFECTIVE DATE.

12 WHEREAS, Chapter 125 of the Florida Statutes empower
13 counties to provide for the health, safety and general welfare
14 including the enactment and enforcement of construction and
15 related technical standards and regulations; and

16 WHEREAS, pursuant to Chapter 74-565, Laws of Florida, as
17 amended, Palm Beach County has adopted by Ordinance the Standard
18 Building, Gas, Mechanical and Plumbing Codes, 1988 edition; and

19 WHEREAS, Chapter 74-565, Laws of Florida, as amended,
20 authorizes Palm Beach County to adopt by ordinance amendments to
21 modify and improve its construction codes to meet local
22 conditions, provided that said amendments do not lower the
23 standards of the minimum code adopted; and

24 WHEREAS, pursuant to Chapter 74-565, and F.S.
25 553.73(a), the Building Code Advisory Board of Palm Beach County
26 has reviewed local conditions and based on this review has
27 recommended the adoption of these amendments; and

28 WHEREAS, the adoption of these amendments will be in
29 the public interest by strengthening the National Electrical Code,
30 1990 edition, for the health safety and general welfare of
31 citizens in the unincorporated area of Palm Beach County; and

32 WHEREAS, the Board of County Commissioners of Palm
33 Beach County, sitting as the Local Planning Agency, has determined
34 that the proposed amendments to the Standard Codes, are consistent

with the adopted Comprehensive Plan of Palm Beach County, as required by Section 163.3194(2), Florida Statutes.

NOW, THEREFORE, BE IT ORDAINED BY THE BOARD OF COUNTY COMMISSIONERS OF PALM BEACH COUNTY, FLORIDA, that:

SECTION 1 - REPEAL OF THE PALM BEACH COUNTY AMENDMENTS TO THE NATIONAL ELECTRICAL CODE, 1987 EDITION

The Palm Beach County Amendments to the National Electrical Code, 1987 edition, Ordinance 88-19, as amended, is hereby repealed.

SECTION 2 - ADOPTION OF PALM BEACH COUNTY AMENDMENTS TO THE NATIONAL ELECTRICAL CODE, 1990 EDITION

The Palm Beach County Amendments to the National Electrical Code, 1990 edition, hereto attached are hereby adopted and incorporated herein.

SECTION 3 - APPLICABILITY

The National Electrical Code, 1990 edition, as amended by these standards shall be the minimum electrical construction standards for the unincorporated areas of Palm Beach County and for those municipalities within Palm Beach County for which the Palm Beach County Planning, Zoning and Building Department provides construction code enforcement services pursuant to intergovernmental agreement. This ordinance shall apply as far as possible to any future editions of the National Electrical Code, which may be adopted by the State or County for Palm Beach County, until such time Palm Beach County may adopt new amendments.

SECTION 4 - REPEAL OF LAWS IN CONFLICT

All ordinances, or parts of ordinances of Palm Beach County, Florida, which are in conflict are hereby repealed. All or any part of those local laws which pertain to Palm Beach County, Florida, which conflict with this ordinance or parts of this ordinance are hereby repealed pursuant to Article 8, Section 6d, Florida Constitution.

SECTION 5 - SEVERABILITY

If any section, paragraph, sentence, clause, or word of this ordinance is for any held by the Court to be unconstitutional, inoperative or void, such holding shall not affect the remainder of this ordinance.

SECTION 6 - EFFECTIVE DATE

The provisions of this ordinance shall become effective after receipt of acknowledgement by the Secretary of State, on February 1, 1991.

APPROVED AND ADOPTED by the Board of County Commissioners of Palm Beach County, Florida, on this 18th day of December, 1990.

PALM BEACH COUNTY, FLORIDA, BY ITS
BOARD OF COUNTY COMMISSIONERS:

By [Signature]
Chair

APPROVED AS TO FORM
AND LEGAL SUFFICIENCY:

[Signature]
County Attorney

JOHN B. DUNKLE, CLERK
Board of County Commissioners

By [Signature]
DEPUTY CLERK

Acknowledgement by the Department of State of the State of Florida, on this, the 31st day of December, 1990.

Acknowledgement from the Department of State received on the 4th day of January, 1991, at 3:58, p.m., and filed in the Office of the Clerk of the Board of County Commissioners of Palm Beach County, Florida.

STATE OF FLORIDA, COUNTY OF PALM BEACH
I, JOHN B. DUNKLE, ex-officio Clerk of the
Board of County Commissioners certify this to
be a true and correct copy of the original filed in
my office on 12/18/90
DATED at West Palm Beach, FL on 12/18/91
JOHN B. DUNKLE, Clerk
By: [Signature] D.C.
Deputy Clerk 11-1-90

ARTICLE 90
ADMINISTRATION

90-9 - INCORPORATION OF STANDARD

The Model Countywide Administrative Code is hereby adopted by reference and is incorporated as if herein, and is intended to provide for the administrative aspects of the National Electrical Code and these amendments thereto.

CHAPTER 1. General

ARTICLE 100 - DEFINITIONS

Scope. This article contains only those definitions essential to the proper application of this Code. It is not intended to include commonly defined general terms or commonly defined technical terms from related codes and standards. In general, only those terms used in two or more articles are defined in Article 100. Other definitions are included in the article in which they are used but may be referenced in Article 100.

Part A of this article contains definitions intended to apply wherever the terms are used throughout this Code. Part B contains definitions applicable only to the parts of articles covering specifically installations and equipment operating at over 600 volts, nominal. All the definitions as listed in the latest edition of the Standard Building Code shall be a part of this Code.

A. General

100

And/Or: in a choice of two code provisions, signifies that use of both provisions will satisfy the code requirement and use of either provision is acceptable also.

Electrician: Is a person who is engaged in the electrical trade or business and who is qualified under the terms and provisions of this Code.

Electrical Apprentice: Is a person who is engaged in learning the electrical trade by working with and under the supervision of a journeyman electrician who holds a valid certificate of competency and who shall be held responsible for the work of such an apprentice.

Journeyman Electrician: Is a person qualified by experience and/or education to perform work in the electrical trade. Shall be certified by the Construction Industry Licensing Board of Palm Beach County.

CHAPTER 2. WIRING DESIGN AND PROTECTION

ARTICLE 210 -- BRANCH CIRCUITS

A. General Provisions

210-1 Scope. The provisions of this article apply to branch circuits supplying lighting or appliance loads or combinations of both. Where motors or motor-operated appliances are connected to any branch circuit that also supplies lighting or other appliance loads, the provisions of both this article and article 430 shall apply. Article 430 applies where a branch circuit supplies motor loads only. Branch circuits shall be plainly marked at the overcurrent protective device so that they can be quickly and positively identified.

Exception: Branch circuits for electrolytic cells as covered in Section 668-3(c). Exceptions No. 1 and 4.

Section 210-8. Ground-Fault Circuit-Interrupter Protection for Personnel.

(a) Dwelling Units

(5) All 125-volt, single-phase, 15- and 20-ampere receptacles installed within 6 feet (1.83 m) of a sink to serve counter top surfaces shall have ground-fault circuit-interrupter protection for personnel.

(FPN): The intent of this subsection is to permit the exemption of receptacles which are located specifically for appliances such as refrigerators and freezers from ground-fault circuit-interrupter protection for personnel.

(c) Commercial Bars and Fountains

All 125-Volt, Single-Phase, 15- and 20-ampere receptacles installed in the beverage work area shall have ground-fault circuit-interrupter protection for personnel.

Exception: Receptacles which are located specifically for appliances such as refrigerators and freezers.

C. Required Outlets

210-50 General.

(d) Any building to be used for other than office occupancies, warehouses used for storage only or dwelling units, shall have receptacles installed each twenty (20) feet of unencumbered wall space. All receptacles shall be installed at accessible locations and this accessibility shall be maintained regardless of wall fixtures or other modifications. Office occupancies shall have receptacles installed each twelve (12) feet of unencumbered wall space. Receptacles are not required in warehouses used for storage only.

(e) A disconnecting means and a 115 volt outlet shall be installed within sight and easy reach of the ungrounded leads of each power circuit to electrically operated heating and air conditioning components. The disconnecting means shall in no case

be installed further than six (6) feet from the service side of the equipment.

210-52. Dwelling Unit Receptacle Outlets.

(b) Small Appliances.

(1) The two or more 20-ampere small appliance branch circuits required by Section 220-4(b) shall serve all receptacle outlets in the kitchen, pantry, breakfast room, dining room or similar area of a dwelling unit. Such circuits, whether two or more are used, shall have no other outlets.

Exception No. 1: A receptacle installed solely for the electrical supply to and support of an electric clock in any of the rooms specified above.

Exception No. 2: Outdoor receptacles.

Exception No. 3: In addition to the required receptacles specified by Section 210-52, switched receptacles supplied from a general-purpose branch circuit as defined in Section 210-70(a), Exception No. 1 shall be permitted.

210-63. Heating, Air-conditioning and Refrigeration Equipment Outlet. A 125-volt, single-phase, 15- or 20-ampere-rated receptacle outlet shall be installed at an accessible location for the servicing of heating, air-conditioning, and refrigeration equipment on rooftops and in attics and crawl spaces. The receptacle shall be located on the same level and within 75 feet (22.86 m) of the heating, air-conditioning, and refrigeration equipment. The receptacle outlet shall not be connected to the load side of the equipment disconnection means.

ARTICLE 215 - FEEDERS

215-8. Identification of Feeder Conductors. Feeder conductors in NEW BUILDINGS shall be identified by color or tagging or by other effective methods at each point a connection is made if the neutral conductor is also present.

EXCEPTION: The existing system of coding may be maintained in new buildings or additions to existing buildings at industrial and commercial installations.

(a) 120/240 volt, single phase, three wire system.

Phase "A" - Black

Phase "B" - Red

Neutral - White

(b) 208Y/120 volt, three phase, four wire system.

Phase "A" - Black

Phase "B" - Red

Phase "C" - Blue

Neutral - White

(c) 480Y/277 volt, three phase, four wire system.

Phase "A" - Brown

Phase "B" - Purple

Phase "C" - Yellow

Neutral - Gray

(d) 240 delta/120 volt, three phase, four wire system (open delta)

Phase "A" - Black

Phase "B" - Orange (higher voltage to ground or high leg)

Phase "C" - Red

Neutral - White

Note: A cabinet or enclosure shall be identified by the words "OPEN DELTA" where internal Phase "B" and neutral conductors are connected.

215-11. Feeder Conductors. All feeder conductors to panels shall be installed in an approved raceway.

ARTICLE 220 -- BRANCH-CIRCUIT AND FEEDER CALCULATIONS

220-4 (e) General Lighting Outlets - Dwelling Unit. In dwelling units, a 15 ampere circuit may have ten (10) general lighting outlets and a 20 ampere circuit may have twelve (12) general lighting outlets.

(f) Appliance Branch Circuits - Dwelling Unit. Air conditioners, refrigerators, dishwashers, garbage disposals, microwave ovens and appliances rated at or above 750 watts or 1/4 horsepower must have a separate circuit.

ARTICLE 230 - SERVICES

D. SERVICE-ENTRANCE CONDUCTORS

230-40. Number of Service-Entrance Conductor Sets. Each service drop or lateral shall supply only one set of service-entrance conductors.

Exception No. 1: A two family dwelling shall be permitted to have one set of service-entrance conductors run to each dwelling.

Exception No. 2: Where two to six service disconnecting means in separate enclosures are grouped at one location and supply separate loads from one service drop or lateral, one set of service-entrance conductors shall be permitted to supply each or several such service equipment enclosures.

230-43. Wiring Methods for 600 Volts, Nominal or Less.

Service-entrance conductors shall be installed in accordance with the applicable requirements of this Code. All service entrance conductors shall be installed in an approved raceway such as rigid conduit, aluminum conduit, intermediate metal conduit, electrical metallic tubing, rigid non-metallic conduit, busway, cable bus, auxiliary gutters and wireways, cable tray or mineral

insulated cable. An electrical mast must be rigid or intermediate metal conduit and shall be a minimum two inch trade size or more in diameter when used as a support mast for service drops.

Approved cable tray systems shall be permitted to support cables approved for use as service-entrance conductors. See Article 318.

F. Service Equipment - Disconnecting Means

230-70. General. Means shall be provided to disconnect all conductors in a building or other structure from the service-entrance conductors.

(a) Location. The service disconnecting means shall be installed at a readily accessible location either outside of a building or structure, or inside nearest the point of entrance of the service conductors. If eight (8) feet or more of service entrance conductors are located inside of the building as determined by Section 230-6, a disconnect must be installed at the meter.

Remainder of section unchanged.

Chapter 3. Wiring Methods and Materials

ARTICLE 300 -- WIRING METHODS

300-2 - Limitations.

(c) The wiring systems listed in Table 300-2 (c) are permitted inside the fire district.

Underlining and highlighting is omitted for clarity

(d) The wiring systems listed in Table 300-2 (d) are permitted outside the fire district.

Underlining and highlighting is omitted for clarity

TABLE 300-2(d)
PERMITTED WIRING SYSTEMS OUTSIDE THE FIRE DISTRICT

ARTICLE	1 & 2			MULTI-			COMMERCIAL &		
	FAMILY	DWELLING	OCCUPANCIES	FAMILY	DWELLING	OCCUPANCIES	FAMILY	DWELLING	OCCUPANCIES
305 Temporary Wiring	*	*	*	*	*	*			
318 Cable Trays	*	*	*	*	*	*			
320 Open Wiring on Insulators									
321 Messenger Supported Wiring	*	*	*	*	*	*			
324 Concealed Knob-and-Tube Wiring									
325 Integrated Gas Spacer Cable			*						
Type IGS									
Part A. General									
Part B. Installation									
Part C. Construction									
Specifications									
326 Medium Voltage Cable			*						
Type MV									
328 Flat Conductor Cable	*	*	*	*	*	*			
Type FCC									
Part A. General									
Part B. Installation									
Part C. Construction									
330 Mineral-Insulated, Metal Sheathed Cable Type MJ	*	*	*	*	*	*			
Part A. General									
Part B. Installation									
Part C. Construction									
Specifications									
331 Electrical Nonmetallic Tubing	*	*	*	*	*	*			
Part A. General									
333 Armored Cable Type AC	*	*	*	*	*	*			
334 Metal-Clad Cable									
Part A. General									
Part B. Installation									
Part C. Construction									
Specifications									
336 Nonmetallic-Sheathed Cable	*	*	*	*	*	*			
Type NM and NMC									
Part A. General									
Part B. Installation									
Part C. Construction									
Specifications									
337 Shielded Nonmetallic-Sheathed Cable Type SNM	*	*	*	*	*	*			
338 Service-Entrance Cable	*	*	*	*	*	*			
Types SE and USE									
for Branch Circuits									
Wiring Only									
339 Underground Feeder and Branch-Circuit Cable	*	*	*	*	*	*			
Type UF									
340 Power and Control Tray									
Cable Type TC									
342 Nonmetallic Extensions	*	*	*	*	*	*			
345 Intermediate Metal Conduit	*	*	*	*	*	*			
Part A. General									
Part B. Installation									
Part C. Construction									
Specifications									

ARTICLE	1 & 2 FAMILY DWELLING	MULTI- FAMILY DWELLING	COMMERCIAL & NON-RESIDENTIAL OCCUPANCIES	ARTICLE	1 & 2 FAMILY DWELLING	MULTI- FAMILY DWELLING	COMMERCIAL & NON-RESIDENTIAL OCCUPANCIES
346 Rigid Metal Conduit Part A. Installation Part B. Construction Specifications	*	*	*	352 Surface Metal Raceways and Surface Nonmetallic Raceways	*	*	*
347 Rigid Nonmetallic Conduit Part A. Installation Part B. Construction Specifications	*	*	*	Part A. Surface Metal Raceways			
348 Electrical Metallic Tubing Part A. Installation Part B. Construction Specifications	*	*	*	Part B. Surface Non- metallic Raceways			
349 Flexible Metallic Tubing Part A. General Part B. Construction and Installation	*	*	*	353 Multioutlet Assembly	*	*	*
350 Flexible Metal Conduit	*	*	*	354 Underfloor Raceways	*	*	*
351 Liquidtight Flexible Metal Conduit and Liquidtight Flexible Nonmetallic Conduit Part A. Liquidtight Flexible Metal Conduit Part B. Liquidtight Flexible Nonmetallic Conduit	*	*	*	356 Cellular Metal Floor Raceways	*	*	*
				Part A. Installation Part B. Construction Specifications			
				358 Cellular Concrete Floor Raceways	*	*	*
				362 Wireways	*	*	*
				363 Flat Cable Assemblies Type FC	*	*	*
				364 Busways	*	*	*
				Part A. General Requirements Part B. Requirements for Over 600 Volts, Nominal			
				365 Cablebus	*	*	*
				374 Auxiliary Gutters	*	*	*

**TABLE 300-2(c)
PERMITTED WIRING SYSTEMS OUTSIDE THE FIRE DISTRICT**

ARTICLE	1 & 2			MULTI-			COMMERCIAL &		
	FAMILY	DWELLING	DWELLING	FAMILY	DWELLING	DWELLING	NON-RESIDENTIAL	NON-RESIDENTIAL	NON-RESIDENTIAL
305 Temporary Wiring	*			*			*		
318 Cable Trays	*			*					
320 Open Wiring on Insulators									
321 Messenger Supported Wiring	*			*			*		
324 Concealed Knob-and-Tube Wiring									
325 Integrated Gas Spacer Cable									
Type JGS									
Part A. General									
Part B. Installation									
Part C. Construction									
Specifications									
326 Medium Voltage Cable									
Type MV									
328 Flat Conductor Cable	*			*			*		
Type FCC									
Part A. General									
Part B. Installation									
Part C. Construction									
330 Mineral-Insulated, Metal Sheathed Cable Type MI	*			*			*		
Part A. General									
Part B. Installation									
Part C. Construction									
Specifications									
331 Electrical Nonmetallic Tubing	*								
Part A. General									
333 Armored Cable Type AC	*			*			*		
334 Metal-Clad Cable									
Part A. General									
Part B. Installation									
Part C. Construction									
Specifications									
336 Nonmetallic-Sheathed Cable	*								
Type NM and NMC									
Part A. General									
Part B. Installation									
Part C. Construction									
Specifications									
337 Shielded Nonmetallic-Sheathed Cable Type SNM	*								
338 Service-Entrance Cable Types SE and USE (for branch wiring circuits only)	*								
339 Underground Feeder and Branch-Circuit Cable Type UF									
340 Power and Control Tray Cable Type TC									
342 Nonmetallic Extensions	*			*			*		
345 Intermediate Metal Conduit	*			*			*		
Part A. General									
Part B. Installation									
Part C. Construction									
Specifications									

ARTICLE	1 & 2			MULTI-			COMMERCIAL &		
	FAMILY	DWELLING	DWELLING	FAMILY	DWELLING	DWELLING	NON-RESIDENTIAL	NON-RESIDENTIAL	OCCUPANCIES
347 Rigid Nonmetallic Conduit	*								
Part A. Installation									
Part B. Construction									
Specifications									
348 Electrical Metallic Tubing	*	*	*	*	*	*	*	*	*
Part A. Installation									
Part B. Construction									
Specifications									
349 Flexible Metallic Tubing	*	*	*	*	*	*	*	*	*
Part A. General									
Part B. Construction									
and Installation									
350 Flexible Metal Conduit	*	*	*	*	*	*	*	*	*
351 Liquidtight Flexible Metal									
Conduit and Liquidtight Flexible Nonmetallic Conduit									
Part A. Liquidtight Flexible Metal Conduit	*	*	*	*	*	*	*	*	*
Part B. Liquidtight Flexible Nonmetallic Conduit	*	*	*	*	*	*	*	*	*
352 Surface Metal Raceways and Surface Nonmetallic Raceways	*	*	*	*	*	*	*	*	*
Part A. Surface Metal Raceways	*	*	*	*	*	*	*	*	*
353 Multioutlet Assembly	*	*	*	*	*	*	*	*	*
354 Underfloor Raceways	*	*	*	*	*	*	*	*	*
356 Cellular Metal Floor Raceways	*	*	*	*	*	*	*	*	*
Part A. Installation									
Part B. Construction									
Specifications									
358 Cellular Concrete Floor Raceways	*	*	*	*	*	*	*	*	*
362 Wireways	*	*	*	*	*	*	*	*	*
363 Flat Cable Assemblies	*	*	*	*	*	*	*	*	*
Type FC									
364 Busways	*	*	*	*	*	*	*	*	*
Part A. General									
Requirements									
Part B. Requirements for Over 600 Volts, Nominal									
365 Cablebus	*	*	*	*	*	*	*	*	*
374 Auxiliary Gutters	*	*	*	*	*	*	*	*	*

300-5. Underground Installations.

**Table 300-5 Minimum Cover Requirements, 0 to 600 Volts, Nominal,
Burial in Inches**

UNCHANGED

Note 5. All service lateral conductors shall be installed in an approved raceway and shall have 24 inch minimum cover.

ARTICLE 310 - CONDUCTORS FOR GENERAL WIRING

310-2. Conductors.

(c) Restrictions.

(1) Aluminum conductors smaller than No. 2 A.W.G. shall not be installed.

(2) All aluminum conductors shall terminate in approved hypress lugs and/or connectors conforming to the manufacturers specifications and/or the Aluminum Association's installation manual and design guide.

(3) Aluminum conductors shall not be used for grounding or bonding.

ARTICLE 333 - ARMORED CABLE

Type AC Cable

333-2. Other Articles. Type AC cable shall comply with this article and also with the applicable provisions of other articles in this Code, especially Article 300 and 300-4(d).

333-4. Construction. Type AC cable shall have an armor of flexible metal tape. The insulated conductors shall be in accordance with Section 333-5. Cables of the AC type, except ACL, shall have an internal bonding strip of copper or aluminum, in intimate contact with the armor for its entire length.

Type AC cable conductors shall include a separate copper grounding conductor.

ARTICLE 336 - NONMETALLIC SHEATHED CABLE

Types NM and NMC

336-3. Uses Permitted. Type NM and Type NMC cables shall be permitted to be used in one and two family dwellings except as prohibited in Section 336-4. Where installed in cable trays, cables shall be identified for this use. Type NM and NMC cable shall comply with this article and also with the applicable provisions of other articles in this Code, especially Article 300 and 300-4(d).

(FPN): See Section 310-10 for temperature limitation of conductors.

ARTICLE 348 - ELECTRICAL METALLIC TUBING

348-1. Use. The use of electrical metallic tubing shall be permitted for both exposed and concealed work. Electrical metallic tubing shall not be used: (1) where, during installation or afterward, it will be subject to severe physical damage; (2) where protected from corrosion solely by enamel; (3) in cinder concrete or cinder fill where subject to permanent moisture unless protected on all sides by a layer of noncinder concrete at least 2 inches (50.8 mm) thick or unless the tubing is at least 18 inches (457 mm)

under the fill; (4) in any hazardous (classified) location except as permitted by Section 502-4,, 503-3, and 504-20. Where practicable, dissimilar metals in contact anywhere in the system shall be avoided to eliminate the possibility of galvanic action. Electrical metallic tubing may be used in concrete except for slabs on grade.

(Remainder of section unchanged)

**ARTICLE 370 - OUTLET, DEVICE, PULL AND JUNCTION BOXES,
CONDUIT BODIES AND FITTINGS**

B. Installation

370-19. Conduit Bodies, Junction, Pull and Outlet Boxes to be Accessible. Conduit bodies, junction, pull and outlet boxes shall be so installed that the wiring contained in them can be rendered accessible without removing any part of the building or in underground circuits without excavating sidewalks, paving, earth, or other substance that is to be used to establish the finish grade.

(a). Suspended Ceiling. Junction, pull and outlet boxes shall be installed not more than four (4) feet above a suspended ceiling.

Exception: Listed boxes shall be permitted where covered by gravel, light aggregate, or noncohesive granulated soil if their location is effectively identified and accessible for excavation.

ARTICLE 384 - SWITCHBOARDS AND PANELBOARDS

384-15. Number of Overcurrent Devices on One Panelboard. Not more than forty-two overcurrent devices (other than those provided for in the mains) of a lighting and appliance branch-circuit panelboard shall be installed in any one cabinet or cutout box.

A lighting and appliance branch-circuit panelboard shall be provided with physical means to prevent the installation of more overcurrent devices than that number for which the panelboard was designed, rated, and approved.

For the purposes of this article, a 2-pole circuit breaker shall be considered two overcurrent devices; a 3-pole breaker shall be considered three overcurrent devices.

In each branch-circuit panelboard of any one and two family dwelling, there shall be a minimum of two (2) extra spaces for fuse holders or breakers for future use. An empty raceway terminating in accessible attic space or an empty raceway terminating in a accessible place either under the floor or to the exterior of the building above finish grade shall be installed. All empty raceways installed to the exterior of the building shall terminate above finish grade.

ARTICLE 511 - COMMERCIAL GARAGES, REPAIR AND STORAGE

511-1. Scope. These occupancies shall include locations used for lubrication facilities, service and repair operations in connection with self-propelled vehicles (including passenger automobiles, buses, trucks, tractors, etc.) in which volatile flammable liquids are used for fuel or power.

CHAPTER 6 - Special Equipment

ARTICLE 680 - SWIMMING POOLS, FOUNTAINS, AND SIMILAR INSTALLATION

A. General

680-8. Overhead Conductor Clearances. The following parts of pools shall not be placed under existing service-drop conductors or any other open overhead wiring; nor shall such wiring be installed above the following; (1) pools and the area extending 10 feet (3.05m) horizontally from the inside of the walls of the pool; (2) diving structure; or (3) observation stands, towers, or platforms.

Exception: No. 1: Structures listed in (1), (2) and (3) above shall be permitted under utility-owned, -operated and -maintained supply lines where such installations provide the following clearances:

Exception: No. 2: Utility-owned, -operated, and -maintained communication conductors, community antenna system coaxial cables complying with Article 820, and the supporting messengers shall be permitted at a height of not less than 10 feet (3.05m) above swimming and wading pools, diving structures and observation stands, towers or platforms.

(FPN): Sec Sections 225-18 and 225-19 for clearances for conductors not covered by this section.